

My residence, post office address and citizenship are as stated below next to my name; and

I verily believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: MODULATION OF MOLECULAR INTERACTION SITES ON RNA AND OTHER BIOMOLECULES the specification of which:

- () is attached hereto.
- (XX) was filed on $\underline{\text{May }12,\ 1998}$ as Application Serial No. 09/076,404.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Country	Number	Date Filed	Priority Claimed

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Application	Serial	No.	Filing Date	Status	(patented, pending)
*					

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: John W. Caldwell and Paul K. Legaard, Registration Nos. 28,937 and 38,534 of the firm of WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP, One Liberty Place - 46th Floor, Philadelphia, Pennsylvania 19103, and Herb Boswell and Laurel Bernstein, Registration Nos. 27,311 and 37,280, of ISIS Pharmaceuticals, 2292 Faraday Avenue, Carlsbad, California 92008.

Address all telephone calls and correspondence to:

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Telephone No. 215-568-3100.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the

United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

	Full Name:	Inventor's Signature:	Date:
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PATENT



IN THE THE STATES PATENT AND TRADEMARK OFFICE

In re patent application of:

David J. Ecker, Richard Griffey, Stanley T. Crooke, Ranga Sampath, Eric Swayze, Venkatraman Mohan and Steven Hofstadler

Serial No.: **09/076,404**

Group No.: 1643

Filed: May 12, 1998

Examiner: N/A

For:

MODULATION OF MOLECULAR INTERACTION SITES ON RNA AND

OTHER BIOMOLECULES

Assistant Commissioner for Patents Washington, DC 20231

Sir:

ASSOCIATE POWER OF ATTORNEY

The undersigned, Paul K. Legaard, Registration No.

38,534, of the firm WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP, One Liberty Place - 46th Floor, Philadelphia, Pennsylvania 19103, Attorney and/or Agent for Applicant(s), hereby appoints the following:

Robert B. Washburn	Registration	No.	16,574
Richard E. Kurtz	Registration	No.	19,263
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and

Herb Boswell Registration No. 27,311 Laurel Bernstein Registration No. 37,280

of ISIS PHARMACEUTICALS, 2292 Faraday Avenue, Carlsbad,

California 92008; his associates, with full power to prosecute the above-identified application and to transact all business in the Patent Office connected therewith and requests that correspondence continue to be directed to the firm of WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP at the above address.

Date: September 17, 1998

Paul K. Legaard

Attorney and/or Agent of Record Registration No. 38,534

WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP One Liberty Place - 46th Floor Philadelphia, PA 19103 (215) 568-3100 Applicant or Patentee; David J. Ecker, Richard Griffey, Stanley T. Crooke, Ranga Sampath, Eric Swayze, Venkatraham Hohan and Steve Hofstadler

Attorney's Docket No.: IBIS-0007

Date Filed: May 12, 1998

Serial No.: 09/076,404

For:

MODULATION OF MOLECULAR INTERACTION SITES ON RNA AND

OTHER BIOMOLECULES

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) and 1.27(c) - SMALL BUSINESS CONCERN

I hereby declare that I am:

() the owner of the small business concern identified below:

(X) an official empowered to act on behalf of the concern identified below:

NAME OF CONCERN: ADDRESS OF CONCERN:

ISIS Pharmaceuticals, Inc. 2292 Faraday Avenue

Carlsbad, CA 92008

I hereby declare that the above-identified small business concern qualifies as a small business concern as defined in 13 CFR 121.12, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, in that: (1) the number of employees of the concern, including those of its affiliates, does not exceed 500 persons; and (2) the concern has not assigned, granted, conveyed, or licensed, and is under no obligation under contract or law to assign, grant, convey, or license, any rights in the invention to any person who could not be classified as an independent inventor if that person had made the invention, or to any concern which would not qualify as a small business concern or a nonprofit organization under this section.

For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention entitled MODULATION OF MOLECULAR INTERACTION SITES ON RNA AND OTHER BIOMOLECULES by inventor(s) David J. Ecker, Richard Griffey, Stanley T. Crooke, Ranga Sampath, Eric Swayze, Venkatraman Mohan and Steve Hofstadler described in

() specification filed herewith.

(XX) application serial no. <u>09/076,404</u>, filed <u>May 12, 1998</u>.

()	patent no,	issued	
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If the rights held by the above-identified small business concern are not exclusive, each individual, concern or organization having rights in the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e).

*NOTE: Separate verified statements are required for each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

FULL NAME:

ADDRESS:

() INDIVIDUAL () SMALL BUSINESS CONCERN () NONPROFIT ORGANIZATION

FULL NAME:

ADDRESS:

() INDIVIDUAL () SMALL BUSINESS CONCERN () NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING TITLE OF PERSON SIGNING ADDRESS OF PERSON SIGNING

B. Lynne Parshall, Esq. Executive Vice President 2292 Faraday Avenue Carlsbad, CA 92008

SIGNATURE

DATE